

YANKEE ATOMIC ELECTRIC COMPANY



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TELEPHONE 617 366-9011

February 28, 1973

United States Atomic Energy Commission
Washington, D.C. 20545

Attention: Directorate of Licensing

Reference: License No. DPR-3 (Docket No. 50-~~60~~)

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Dear Sirs:

Pursuant to Section 50-59 of the Commission's Regulations, Yankee Atomic Electric Company hereby requests to make the following change:

PROPOSED CHANGE: Reference is made to Section 101 of the license application Safety Analysis, particularly page 101:18B and to Change No. 97. We propose the following:

"Remove one removable Zircaloy clad fuel rod from a Zircaloy clad fuel assembly and replace it with an exposed Zircaloy clad rod removed earlier (ref. Proposed Change 102)."

Reason for Change: As a continuing part of Yankee's program of fuel performance evaluation and because of the industry's concern with Zircaloy clad fuel and the recent problems of fuel densification and clad collapse, Yankee proposes to remove and replace one Zircaloy clad fuel rod from a Zircaloy clad fuel assembly. Following removal of the fuel rod, a detailed inspection program will be conducted. This change makes available a higher exposure rod than was formerly available.

One rod with an exposure of approximately 5255 MWD/MTU will be removed from an assembly located in core position C-3 and will be replaced by a rod with an exposure of approximately 4570 MWD/MTU removed from an assembly located in core position J-7. These two rods are identical in all respects except for exposure.



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Nuclear performance calculations on power distribution and power peaking as well as a review of Core X transients and accidents have been completed relative to replacement of the rod in the fuel assembly. The results of these evaluations are that the replacement of one rod with an exposure of 5255 MWD/MTU by a rod with an exposure of 4570 MWD/MTU should have a negligible effect on the peak rod in the assembly.

Safety Consideration: In our opinion, the proposed change does not present significant hazard considerations not described or implicit in the license application as amended.

Schedule of Change: The plant is currently shut down for repairs on internals. During this outage, provided approval is granted, the fuel rod replacement described herein will be performed.

Respectfully submitted,
YANKEE ATOMIC ELECTRIC COMPANY
Lawrence E. Minnick
Lawrence E. Minnick
Vice President

LEM/dm

COMMONWEALTH OF MASSACHUSETTS)
)ss.
COUNTY OF WORCESTER)

Then personally appeared before me, Lawrence E. Minnick, who, being duly sworn did state that he is a Vice President of Yankee Atomic Electric Company, that he is duly authorized to execute and file the foregoing request in the name and on the behalf of Yankee Atomic Electric Company, and that the statements therein are true to the best of his knowledge and belief.

Armand R. Soucy
Armand R. Soucy Notary Public
My Commission Expires September 9, 1977